



METALLICO Webinar Series

HOW REACTORS FOR LEACHING AND BIOLEACHING ARE WORKING

Insights from research to practice

What makes leaching and bioleaching truly work? The answer lies in reactor design. This webinar dives into the science behind mixing, mass transfer, and (bio)reactor performance – revealing how smart design decisions can boost extraction efficiency and sustainability. Drawing on insights from Horizon Europe projects, the webinar will discuss current research and emerging strategies addressing these reactor design challenges.

Swipe to see agenda 



9 March 2026



13:30 - 15:30
CET



online



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Agenda

Part 1: Leaching (13:30 - 14:30 CET)

Overview of leaching types in hydrometallurgy: fundamental technologies, advantages and challenges

Andrzej Chmielarz, Łukasiewicz-IMN

METALLICO Project: Sustainable and safe Fe-As alloy leaching: toxic gas emission control and pilot reactor development

Joanna Malarz, Łukasiewicz-IMN

Respect Project: Hydrometallurgical Battery Recycling: Black Mass leaching performance - a combined experimental and regression modelling approach

Ben Wilson, Aalto University

Tetalead Project: Hydrometallurgical recovery of lead from sulphate leach residues of zinc industry

Mateusz Ciszewski, Łukasiewicz-IMN

Part 2: Bioleaching (14:30 - 15:10 CET)

Bioleaching: Can Microorganisms Revolutionize Metal Recovery?

Päivi Kinnunen, VTT & Tampere University

METALLICO Project: Sustainable Metal Extraction from Low Grade Sulphide Ores through the COMAN Bioleaching Approach

Tiina Heikola, VTT

XTRACT Project: Bridging Research and Practice: Challenges in Bioleaching Reactor Design and Upscaling

Douglas Pino Herrera, BRGM

Part 3: Open Discussion (15:10 - 15:30 CET)